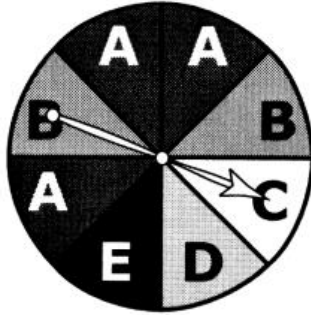


## Possible Solutions

Given the spinner below, how many times would you expect to land on the letter "B" if you spin 128 times?



### Solution 1

$$P(B) = ?$$

There are 2 B's on the spinner with 8 sections.

$$P(B) = \frac{2}{8} = \frac{1}{4}$$

$$\frac{1}{4} \times 128 = \frac{1}{4} \times \frac{128}{1} = \frac{128}{4} = 32$$

### Solution 2

$$P(B) = ?$$

There are 2 B's on the spinner with 8 sections.

$$P(B) = \frac{2}{8}$$

$$\frac{2}{8} = \frac{P}{128}$$

Use cross-products to solve this proportion

$$2 \times 128 = 8 \times P$$

$$256 = 8P$$

$$\frac{256}{8} = \frac{8P}{8}$$

$$32 = P$$

The spinner would be expected to land on the letter B 32 times out of the 128 spins.